ENGLISH

Video Camcorder

8mm

VP-W90/W95D/W97

Hi 8 VP-W90/W95D/W97

Owner's Instruction Book
Before operating the unit, please read this instruction book thoroughly, and retain it for future reference.

SAMSUNG ELECTRONICS

This product meets the intent of Directive 89/336 CEE, 73/23 CEE, 93/68 CEE.

GB

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Table of Contents

Precautions and Safety Instructions

Getting to Know Your Camcorder

Features 8
Descriptions
- ■ Front View/Side View/Rear View 9, 10, 11
- ■ OSD (On Screen Display) 12

Accessories Supplied with Camcorder 14
Remote Control (VP-W97 only) 15
- ■ Self Recording with the Remote Control 15

Preparing

Adjusting the Hand Strap and Shoulder Strap 16
Lithium Battery Installation 17
Connecting a Power Source 18
- ■ To use the AC Power Adapter 18
- ■ To use the Battery Pack 19

Using the Battery Pack 20
- ■ Table of approximate continuous recording time 20
- ■ Battery Level display 21

Inserting and Ejecting a Cassette 22

Basic Shooting

Making the First recording 23
Tips for Stable Image Shooting 25
- ■ Recording with the Viewfinder 25

Adjusting the Focus of the VIEWFINDER 25
Reviewing a recording 26
- ■ Viewing a Still Picture 27
- ■ Picture Search 27

Advanced Shooting

Zooming In and Out 28
Digital Zoom 29
EASY mode (for Beginners) 31
CUSTOM-Creating your own customized recording settings 32

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Table of Contents (continued)

DIS (Digital Image Stabilizer, VP-W97 only) 33
MF/AF (Manual Focus/Auto Focus) 34
BLC 35
Program AE (Automatic Exposure) 36
DSE (Digital Special Effects) in CAMERA mode 38
Setting and Recording the DATE/TIME 40
Selecting and Recording a Title 42
Fade In and Out 44
Snap Shot (VP-W97 only) 45
White Balance 46
Selecting OSD Language 47
Demonstration 48
Setting the Date/TITLE Colour 49
Lighting Techniques 50

Playing back the Tape

To watch on a TV 51
Various Functions in PLAYER mode 53
DSE in PLAYER mode 54

Maintenance

Cleaning and Taking care of the Camcorder 54
■ Cleaning the Viewfinder 54
■ Cleaning the Video Heads 55
■ Storing the Camcorder 55

Using Your Camcorder Abroad 56

Troubleshooting Check

Self Diagnosis Display 57
Checking 58
Moisture Condensation 60

Specifications 61

Index 62

Power Sources (United Kingdom Only) 64

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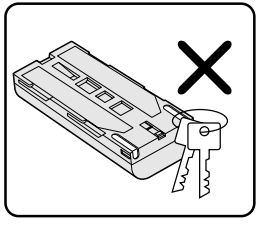
Precautions and Safety Instructions

Taking care of the battery pack

✤ Do not allow any metal objects to touch the terminals, as this can cause a short circuit and damage the battery pack.

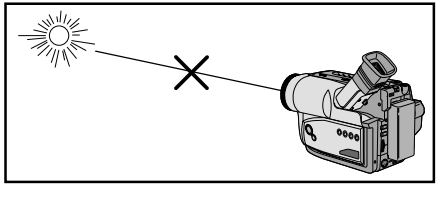


Keep the terminals clean.

✤ The camera, adapter or battery pack will not work properly if the terminals are dirty. Check them before use, and wipe them with a dry cloth or tissue if necessary.

Precautions regarding the LENS

✤ Do not let the LENS point toward the sun. Direct sunlight can damage the CCD. (*CCD: Charge Coupled Device)



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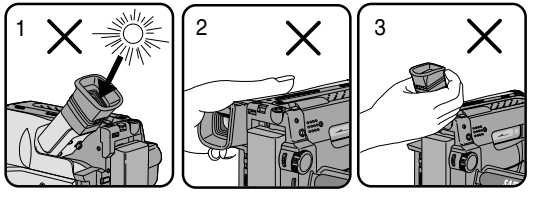
Precautions and Safety Instructions

Precautions regarding electronic viewfinder

1) Do not place the camcorder such that the viewfinder is pointing towards the sun.
   Direct sunlight can damage the inside of the viewfinder. Be careful when placing the camcorder in direct sunlight or by a window.
2) Do not pick up the camcorder by the viewfinder.
3) Do not over rotate the veiwfinder as this could damaging it.



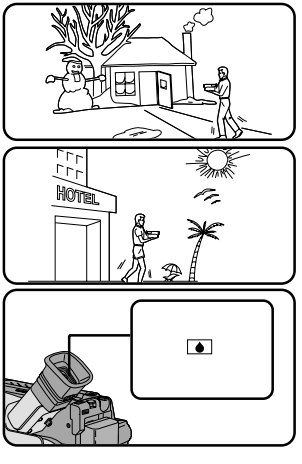
Precautions regarding moisture condensation

1) A sudden change in air temperature may cause moisture to form inside the camcorder.

for example:

- When you take the camcorder from cold temperatures outside to warm temperatures inside during the winter.
- When you take the camcorder from cool temperatures inside to hot temperatures outside during the summer.

2) If the “DEW ( )” protection feature activates, leave the camcorder in a dry and warm room with the cassette compartment open and the battery removed.
3) If the “DEW ( )” protection feature activates unexpectedly, and you want to override it, disconnect and reconnect both the battery pack and the lithium battery.
   Make sure that any moisture or condensation has disappeared completely before you use the camera. (see page 60)



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Precautions and Safety Instructions

Precautions regarding the battery pack

- Make sure that the battery pack is charged before shooting outdoors.
- To preserve battery power, keep your camcorder turned off when you are not operating it.
- When your camcorder is in CAMERA mode, if it is left in STANDBY for more than 5 minutes without operation, it will automatically turn off to protect against unnecessary battery discharge.
- Make sure that the battery pack is locked in place before carrying. Dropping the battery pack might damage it.
- When the battery reaches the end of its life please contact your local dealer. The batteries have to be dealt with as chemical waste.

Precautions regarding the Lithium battery

Warning: **Keep the LITHIUM BATTERY out of the reach of children. Should the battery be swallowed, consult a doctor immediately.**

- The lithium battery maintains the CLOCK function, TITLE, CUSTOM function and preset contents memory; even if the battery pack or AC power adapter is removed.
- The lithium battery for the camcorder lasts about 8~10 months under normal operation from time of installation.
- When the lithium battery becomes weak or dead, the date/time indicator flashes about 5 seconds when you set the power switch to CAMERA. In this case, replace the lithium battery with type CR2025. (see page 17)

WARNING:

LITHIUM BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.

*When the lithium battery becomes weak or dead please contact your local dealer. The batteries have to be desposed of as chemical waste.

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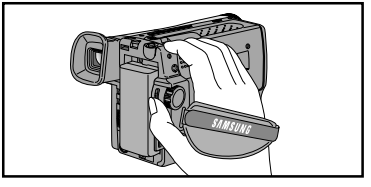
Precautions and Safety Instructions

Precautions regarding the hand strap

- It is very important to adjust the hand strap correctly to ensure the camera can be held steady. (see page 16)
- Do not insert your hand in the hand strap forcibly, as it may result in damage to the buckle.



Precautions when cleaning the video heads

- To ensure normal recording and clear pictures, ensure that the heads are kept clean.
  When playing back the pictures, if they are noisy or hardly visible, the video heads may be dirty.
  If this happens, clean the video heads with a dry type cassette cleaner.
- Do not use a wet type cassette cleaner. It may damage the video heads. (see page 55)

Auto-off function in STANDBY mode

- To protect against tape and head-drum wear, your camcorder will automatically turn off if it is left in STANDBY mode without operation for more than 5 minutes.

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Getting to Know Your Camcorder

Features

Your camcorder has many features available when recording or during playback.

MULTI OSD LANGUAGE

You can select the appropriate OSD Language among English, French, Spanish.

Snap Shot (VP-W97 only)

The Snap Shot function allows you to record an object at a standstill for a limited time in CAMERA mode. (see page 45)

BLC

When you shoot a subject with the light source behind the subject or a subject with a light background, the BLC function should be switched on. (see page 35)

DSE (Digital Special Effects)

The DSE allows a creative look to your films by adding various special effects. (see page 38)

Program AE (Auto Exposure)

The Program AE allows the shutter speed and aperture to be adjusted to the type of subject being filmed. (see page 36)

DIS (VP-W97 only)

The DIS compensates for unstable images caused by hand shake, particularly at high magnification. (see page 33)

22x High ratio zoom lens

Zooming is a recording technique that lets you change the size of the subject in the picture. For more professional recordings, use the zoom function. (see page 28)

Digital Zoom

Zooms more than 22x are performed digitally. (see page 29)

Macro

The macro function allows you to shoot your subject at close range. You have to adjust the zoom fully wide for macro shooting. (see page 28)

EASY

This mode enables even the beginner to easily make a recording. (see page 31)

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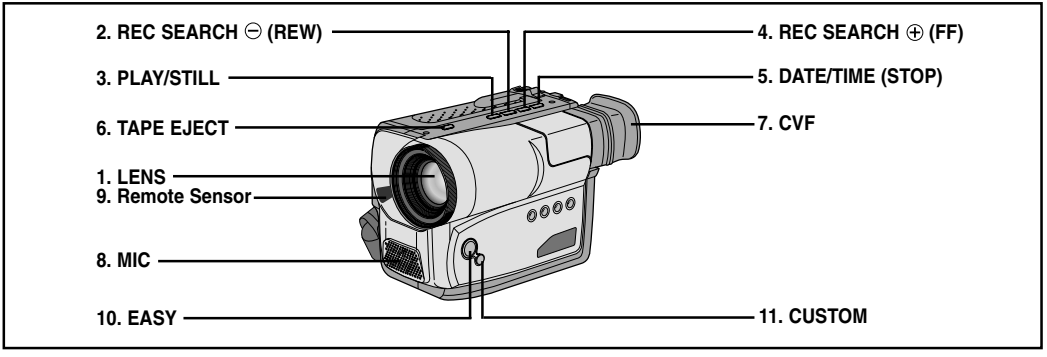
Getting to Know Your Camcorder

Front View



1. **Lens (see page 61)**
2. **REC SEARCH ⊖ (REW)**
   REC SEARCH ⊖ works in STANDBY mode. (see page 24)
   REW works in PLAYER mode. (see page 53)
3. **PLAY/STILL (see page 52)**
   PLAY/STILL works in PLAYER mode.
4. **REC SEARCH ⊕ (FF)**
   REC SEARCH ⊕ works in STANDBY mode. (see page 24)
   FF works in PLAYER mode. (see page 53)
5. **DATE/TIME (STOP)**
   DATE/TIME works in CAMERA mode. (see page 40)
   STOP works in PLAYER mode. (see page 52)
6. **TAPE EJECT (see page 22)**
   Used to eject the tape.
7. **CVF (Colour Viewfinder)**
8. **MIC**
   MIC works in CAMERA mode.
9. **Remote sensor (VP-W97 only, see page 15)**
10. **EASY**
    EASY works in CAMERA mode.
11. **CUSTOM**
    CUSTOM works in CAMERA mode.

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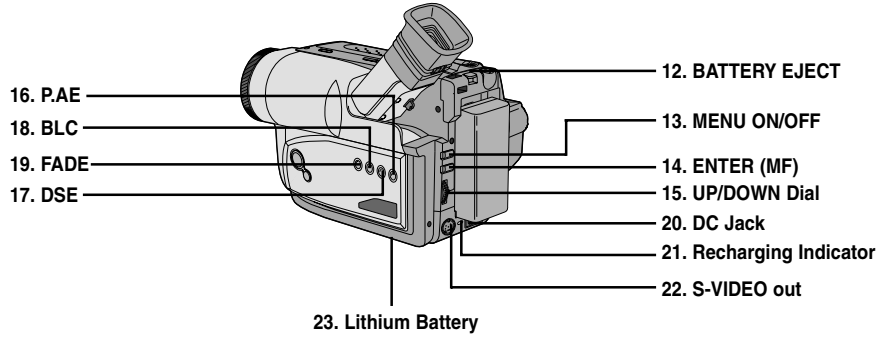
Getting to Know Your Camcorder

Side View



12. **BATTERY EJECT**

13. **MENU ON/OFF (see page 30)**
MENU ON/OFF works in CAMERA and PLAYER mode.

14. **ENTER (MF) (see page 30)**
ENTER works in MENU mode.
MF works in CAMERA mode.

15. **UP/DOWN dial (see page 30)**
UP/DOWN dial works in MENU mode.

16. **PROGRAM AE (see page 36)**
PROGRAM AE (Auto Exposure) works in CAMERA mode.

17. **DSE (see page 38)**
DSE works in CAMERA and PLAYER mode.

18. **BLC (see page 35)**
BLC works in CAMERA mode.

19. **FADE (see page 44)**
FADE works in CAMERA mode.

20. **DC Jack (see page 18)**

21. **Recharging Indicator (see page 19)**

22. **S-VIDEO out**

23. **Lithium Battery (see page 17)**

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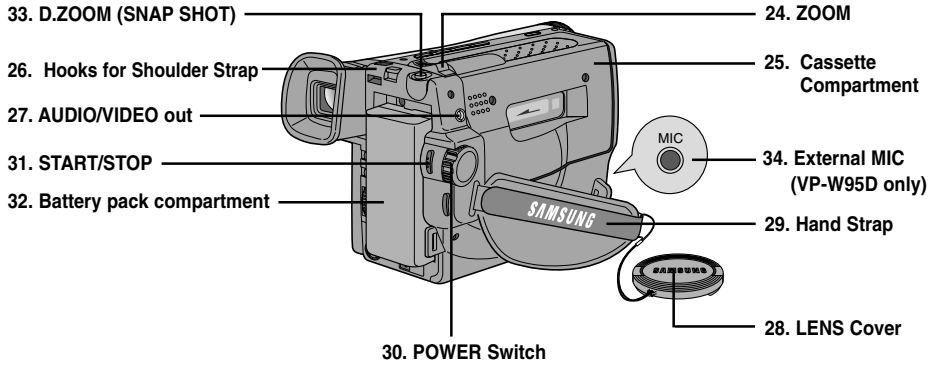
Getting to Know Your Camcorder

Rear View



24. ZOOM (see page 28)

25. Cassette Compartment

26. Hooks for Shoulder Strap (see page 16)

27. AUDIO/VIDEO out (see page 51)

28. LENS Cover

29. Hand Strap (see page 16)

30. POWER Switch (see page 18)
- CAMERA : Select to record.
- OFF : Select to turn off the camcorder.
- PLAYER : Select to playback.

31. START/STOP (see page 23)
START/STOP works in CAMERA mode.

32. Battery pack compartment (see page 19)

33. D.ZOOM (SNAP SHOT)
D.ZOOM works in CAMERA mode.
(VP-W90 only, see page 30)
SNAP SHOT works in CAMERA mode.
(VP-W97 only, see page 45)

34. External MIC (see page 61)
(VP-W95D only)

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Getting to Know Your Camcorder

OSD (On Screen Display)

- ✤ You can turn the OSD on/off by setting the Display menu on/off.
- ✤ The TITLE, DATE/TIME, EASY and CUSTOM functions can be operated even after the OSD is turned off.
- ✤ The OSD is displayed in the viewfinder and the monitor.

a. Zoom position (see page 29)
Indicates zoom position.

b. DIS (VP-W97 only) (see page 33)
Indicates DIS is activating.

c. Battery level (see page 21)
Indicates the power left in the battery.
( )

d. Manual Focus (see page 34)
Indicates manual focus is on.
Auto Focus is not displayed.

e. BLC (see page 35)
Indicates BLC is activating.

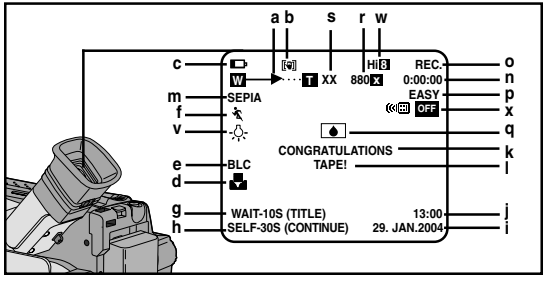
f. Program AE (see page 36)
Indicates Program AE mode is activating.
(, , , ,)

g. Self record waiting timer. (VP-W97 only) (see page 15)
Indicates 10 seconds timer.

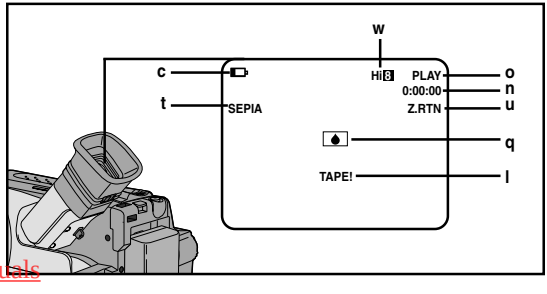
h. Self record recording timer. (VP-W97 only) (see page 15)
(30 seconds or END).

i. Date (see page 40)
Displays the date of the recording.

OSD in CAMERA mode



OSD in PLAYER mode



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Getting to Know Your Camcorder

OSD (On Screen Display)

j. Time (see page 40)
Shows the time of the recording.

k. Title (see page 42)
Shows the title of the recording.
It is superimposed on the scene.

l. Self diagnosis (see page 57)
(TAPE!, TAPE END!, PROTECTION!) Checks the operation of the Camcorder.

m. DSE (Digital Special Effect) (see page 38)
Indicates the DSE mode is active.
The operation modes are STROBE, SEPIA, B&W, NEG., MIRROR, ART, MOSAIC, 16:9 (WIDE) and CINEMA.

n. Tape counter
Shows amount of the tape used.

o. Operation mode
Indicates depending on which operating mode is active.
The operation modes are STBY, REC ●, STOP, PLAY(►), FF(▶▶), REW(◄◄), EJECT.

p. EASY & CUSTOM
Shows when the EASY or CUSTOM mode is active.

q. DEW( ) condensation (see page 60)
Visable if moisture or condesation is detected within the camera.

r. Digital zoom (see page 29)
Shows the digital zoom is active.

s. Snap Shot (VP-W97 only) (see page 45)
Shows the remaining available time for Snap Shot recording.

t. PB DSE (see page 54)
Shows that the PB DSE mode is active.

u. Zero return (VP-W97 only) (see page 53)
Shows that the zero return function is active.

v. White Balance mode (see page 46)
Shows which White Balance mode is active.
The White Balance modes are AUTO, INDOOR(☼) and OUTDOOR(☀).

w. Hi8
Indicates the use of the Hi8 tape in CAMERA or PLAYER modes.
In case of not being tape, display Hi8 on the screen in CAMERA or PLAYER modes.

x. Remocon (OFF) (VP-W97 only)
Indicates the remocon off mode is activated.

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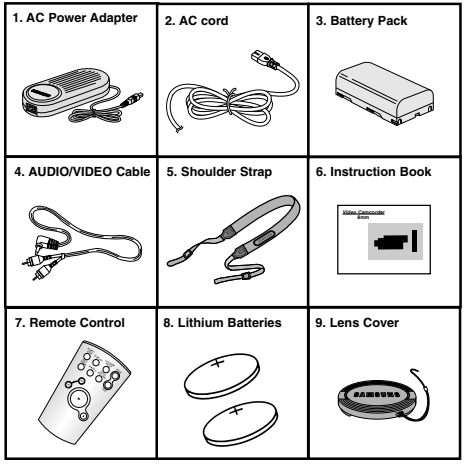
Getting to Know Your Camcorder

Accessories Supplied with Camcorder

Make sure that the following basic accessories are supplied with your camcorder.

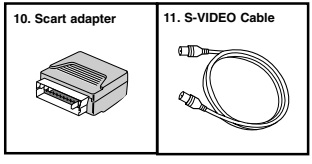
Basic Accessory

1. AC Power Adapter. (see page 18)
2. AC cord. (see page 18)
3. Battery Pack. (see page 19)
4. Audio/Video Cable. (see page 51)
5. Shoulder strap. (see page 16)
6. Instruction Book.
7. Remote Control.
   (VP-W97 only, see page 15)
8. Lithium Battery for Remote Control.
   (VP-W97 only, see page 15)
   Lithium Battery for Clock.
   (TYPE: CR2025, see page 17)
9. Lens Cover



Optional Accessory

10. Scart adapter. (see page 51)
11. S-VIDEO cable



Note: Optional accessories may be included with the camcorder, depending on the country in which it is purchased.

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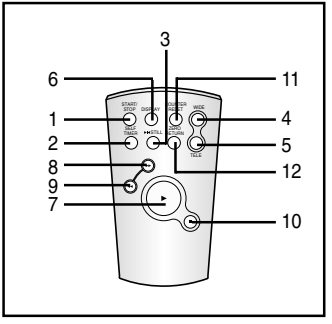
Getting to Know Your Camcorder

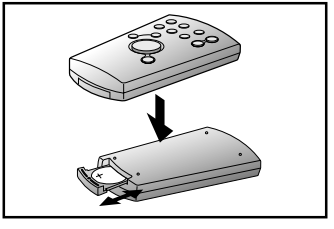
Remote Control (VP-W97 only)

Description of Parts



1. Start/Stop (see page 23)
2. Self Timer
3. Still (see page 53)
4. WIDE (see page 28)
5. TELE (see page 28)
6. Display (see page 12)
7. ► (Play) (see page 52)
8. ▶▶ (FF) (see page 53)
9. ◄◄ (REW) (see page 53)
10. ■ (Stop) (see page 52)
11. Counter Reset (see page 53)
12. Zero Return (see page 53)

Battery Installation to the Remote Control



- ✤ You must insert or replace this battery when:
  - You purchase the camcorder.
  - The remote control doesn't work.
- ✤ Insert Lithium Battery, following the + and - markings.
- ✤ Be careful not to reverse the polarity of the battery.

Self Recording with the Remote Control

- ✤ The Self Timer function on the remote control allows you to start and stop recording automatically.

Example: recording yourself

- ✤ Two options are available
  - WAIT-10S/SELF-30S: wait 10 seconds, followed by 30 seconds of recording.
  - WAIT-10S/SELF-END: wait 10 seconds, followed by recording until you press the START/STOP button again.

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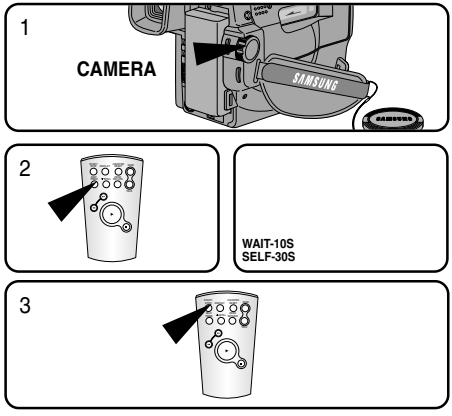
Preparing

1. Set power switch to CAMERA.

2. Press Self Timer button until the appropriate indicator is displayed on the Viewfinder:
   - ■ WAIT-10S/SELF-30S
   - ■ WAIT-10S/SELF-END

3. Press START/STOP button to start the timer.
   : After approximately 10 seconds, recording starts.
   : If you have selected SELF-30S, recording stops automatically after 30 seconds.
   : If you have selected SELF-END, press the START/STOP again when you wish to stop recording.

Note: When using the timer, pressing the START/STOP button again, cancels the function.

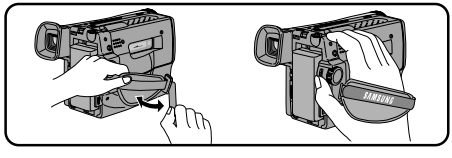


Adjusting the Hand Strap and Shoulder Strap

Hand Strap

- ✤ It is very important to adjust the hand strap correctly to ensure the camera can be held securely.
- ✤ The hand strap enables you to:
  - Hold the camcorder in a stable, comfortable position.
  - Press the Zoom and the red Record button without having to change the position of your hand.

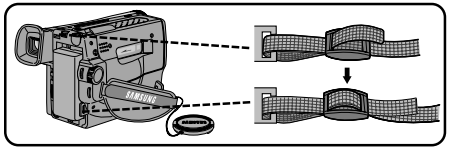
1. Detach adhesive tape from the Hand Strap.
2. Adjust the Hand Strap to your hand and reattach the adhesive tape to secure it.



Shoulder Strap

- ✤ The Shoulder Strap allows you to carry your camcorder with complete safety.

1. Insert each end of the strap into the hooks on the camcorder.
2. Put the end of each strap through the buckle, adjust the length of the strap, then pull it tight in the buckle.



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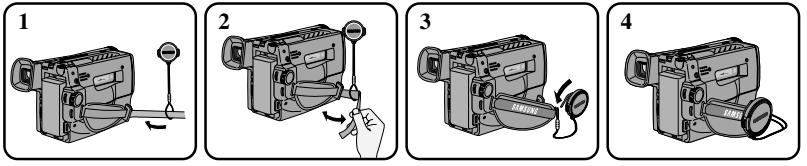
Preparing

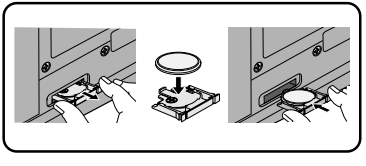
Attaching the Lens Cover



Lithium Battery Installation

- ✤ The lithium battery maintains the clock function, title and preset contents of the memory; even if the battery pack or AC power adapter is removed.
- ✤ The lithium battery for the camcorder lasts about 8~10 months from the time of installation under normal operation.
- ✤ When the lithium battery becomes weak or dead, the date/time indicator flashes about 5 seconds when you set the power switch to CAMERA.
  In this case, replace the lithium battery with type CR2025 Lithium button cell.

1. Remove the Lithium battery holder from the base of the camera.
2. Insert the ⊕ side of the lithium battery toward the bottom of the holder.
3. Reinsert the lithium battery holder into the slot on the base of the camera.



Note: The battery holder will only fit one way to avoid possible incorrect insertion.

Warning: Keep LITHIUM BATTERIES out of the reach of the children.
Should any battery be swallowed, consult a doctor immediately.

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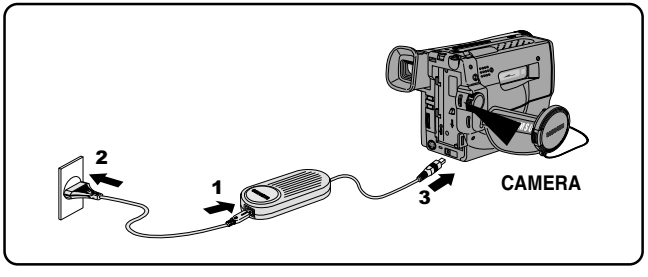
Preparing

Connecting a Power Source

✤ There are two types of power source available.
- Using the AC Power Adapter : used for indoor recording.
- Using the Battery Pack: used for mobile recording.

To use the AC Power Adapter



1. Connect the AC Power Adapter to a AC cord.
2. Connect the AC cord to a wall socket.
   Note: The plug and wall socket type can be different according to the regional conditions.

3. Connect the other end of the DC cable to DC jack of the camcorder.
4. To set the camcorder to CAMERA mode.
   a. Hold down the tab of the power switch and push the switch to CAMERA mode.
   b. Make sure that the Lens Cap is opened.
   c. Make sure that the image appears in the Viewfinder.

Note: If the adapter is used next to the TV or the camcorder, it may cause the TV or camcorder to emit noise. Move the adapter away from the TV, camcorder or the antenna cable.

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Preparing

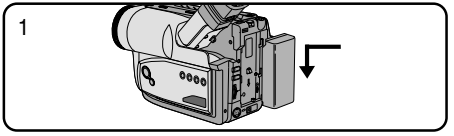
To use the Battery Pack

How long will the battery last for recording?

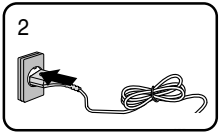
✤ Depends on how often you are likely to use the zoom feature during recording.

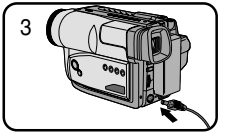
Recharging the Battery Pack

1. Attach the battery pack to the camcorder.

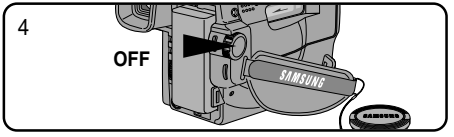


2. Connect the AC Power Adapter to a AC cord and plug the AC cord into a wall socket.
3. Connect the DC cable to the camcorder.





4. Turn the power off on the camcorder, and the recharging indicator will start flashing, indicating the battery is charging.
   - Flashing once a second : the battery is less than 50% charged.
   - Flashing twice a second : the battery is between 50% ~ 75% charged.
   - Flashing three times a second : the battery is between 75% ~ 100% charged.
   - Constantly stays on : Charging is complet.
   - On for a second and off for a second : there is an error and the charger needs to be reset.



5. If recharging is completed, separate the camcorder,AC power adapter, and battery pack.
   - Even if the power is turned off, the battery will still discharged over time if left connected to the camera.

Note: Battery pack may be charged a little at the time of purchase.

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Preparing

Using the Battery Pack

Table of approximate continuous recording time based on model and battery type

Model / Battery Type	VP-W90/W95D	VP-W97
SB-L110A	Approximately 150 minutes	Approximately 125 minutes
SB-L160	Approximately 220 minutes	Approximately 180 minutes
SB-L320	Approximately 430 minutes	Approximately 370 minutes

✤ The continuous recording times given in the table are approximate. Actual recording time may differ dependent on camera settings and usage.

Notes:

✤ The battery pack should be recharged in a room temperature that is between 0°C and 40°C. It should never be charged in a room temperature that is below 0°C.
✤ The life and capacity of the battery pack will be reduced if it is used in temperatures below 0°C, even when it is fully recharged.
✤ The life and capacity of the battery pack will be reduced if the battery pack is left in temperatures above 40°C for a long period, even when it is fully recharged.
✤ Do not put the battery pack near any heat source (fire or flames, for example), or left in direct sunlight.

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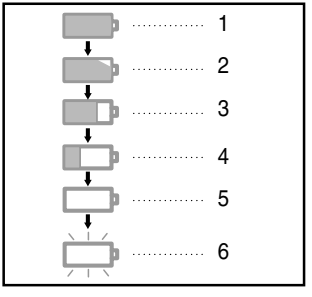
Preparing

Battery Level display

✤ The battery level display indicates the amount of power remaining in the battery pack.

1. Fully charged
2. 10~40% consumed
3. 40~60% consumed
4. 60~80% consumed
   (prepare a charged one)
5. 80~95% consumed
   (change the battery)
6. 100% consumed
   (camcorder will turn off soon, change the battery as soon as possible)

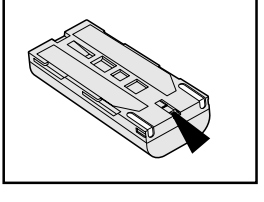


✤ Please refer to the table on page 20 for approximate continuous recording time.

✤ The recording time is affected by environmental temperature and conditions. The recording time becomes very short in a cold environment. The continuous recording time in the operating instructions is measured using a fully charged battery pack in 77°F(25°C). As environmental temperatures and conditions may be different when you actually use the camcorder, the remaining battery time may not be the same as the approximate continuous recording times given in these instructions.

Tips for Battery Identification.

A charge mark is provided on the battery pack to help you remember whether it has been charged or not.
Two colours are provided (red and black)-you may choose which one indicates charged and which indicates discharged.



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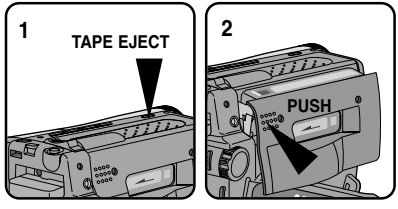
Preparing

Inserting and Ejecting a Cassette

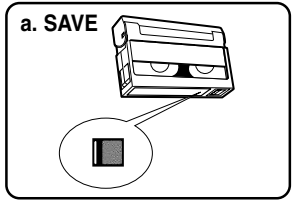
✤ There are several cassette types, depending on:
- Colour system used
- Recording/Playback time
- Hi8

Inserting and Ejecting a Cassette

✤ Check to see if the battery pack is in place or AC adapter is connected.

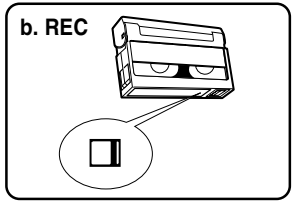


1. **Press the EJECT button for Ejecting the Cassette Holder.**
   - The compartment opens automatically.
   - Insert the cassette with the transparent window facing outward and the protection tab toward the top.
2. **Press the are labelled 'PUSH' until the compartment clicks into place.**



Note: When you have recorded a cassette that you wish to keep, you can protect it from being accidentally erased.

a. Protecting a recording:
Slide the red tab on the cassette so that it covers the hole.



b. Unprotecting a recording:
If you no longer wish to keep the recording on the cassette, slide the red tab back so that it no longer covers up the hole.

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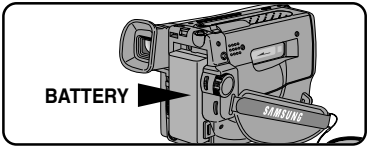
Basic Shooting

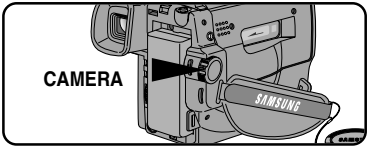
Making the First Recording

Please check the following before recording.

- Have you connected a power source?
  (Battery Pack or AC Power Adapter)

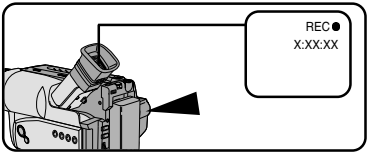


- Have you set the power switch to the CAMERA position?



- Have you inserted a cassette? (see page 22)
- Make sure that STBY is displayed in the OSD (if the red tab of the cassette is covering the hole, STBY will not be displayed)
- Have you removed the LENS COVER?
- Make sure that the image you want to record is visable in the Viewfinder.
- Make sure that there is enough remaining power for the expected recording time. (see page 21)
- We recommend that beginners, who are using the camcorder for the first time, switch the EASY mode on. (see page 31)

a. To start recording, press the red START/STOP button.
Recording starts and REC is displayed in the Viewfinder.



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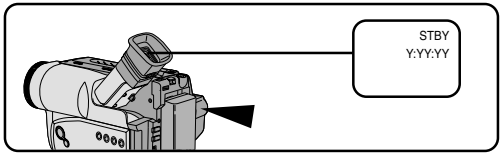
Basic Shooting

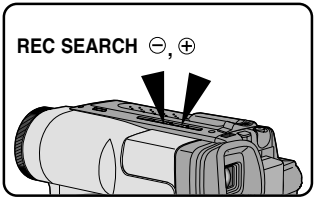
b. To stop recording, press the red START/STOP button again.
When recording stops, STBY will be displayed on the Viewfinder.



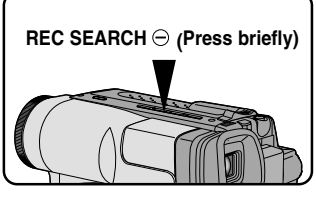
When a cassette is loaded and the camcorder is left in STANDBY mode for over 5 minutes without being used, it will turn off automatically. To use it again, push the red START/STOP button or set power switch to OFF and then back to CAMERA. This Auto Power Off feature is designed to save battery power and to protect the Tape Head and tapes.

REC SEARCH

- You can view a recorded picture with REC SEARCH ⊕, ⊖ function in STANDBY mode. REC SEARCH ⊖ allows you to reverse and REC SEARCH ⊕ allows you to forward, for as long as you keep the button pressed.



- If you press REC SEARCH ⊖ button briefly in STANDBY mode, your camcorder will playback in reverse for 3 seconds and return to the original position automatically.



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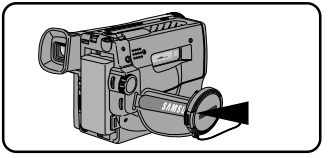
Basic Shooting

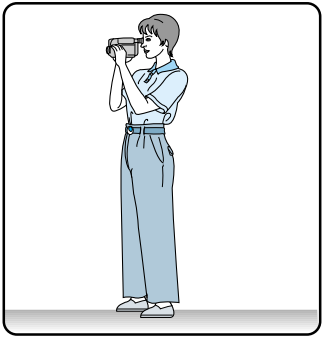
Tips for Stable Image Shooting

- While recording, it is very important to hold the camcorder correctly.
- To avoid the risk of the lens COVER appearing in your shot, always clip it onto the hand strap. (refer to figure)



Recording with the Viewfinder

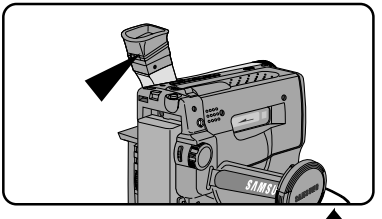
1. Hold the camcorder firmly with the hand strap. (see page 16)
2. Place your right elbow against your side.
3. Place your left hand under the camcorder to support it.
   Be sure to not touch the built-in microphone.
4. Choose a comfortable, stable position for the shots.
   You can lean against a wall or on a table for greater stability.
   Do not forget to breathe gently.
5. Put your eye firmly against the eyepiece.
6. Use the viewfinder frame as a guide to determine the horizontal plane.
7. Whenever possible, use a tripod.



Adjusting the Focus of the VIEWFINDER

Focus:

Slide the focus adjustment knob on the bottom of the VIEWFINDER to focus the image.



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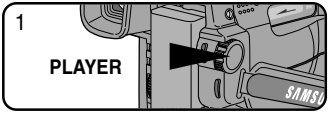
Basic Shooting

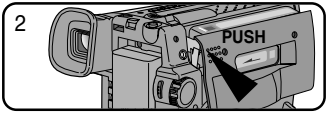
Reviewing a recording

✤ You can review your recording on the Viewfinder.

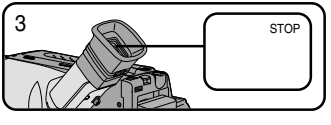
1. Hold down the tab of the power switch and select PLAYER mode.



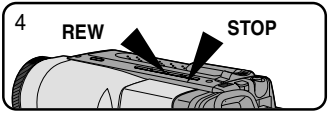
2. Insert the tape you wish to view.



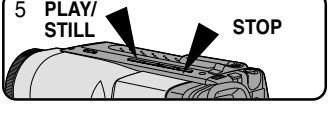
3. Make sure that STOP is displayed in the OSD.



4. Press the ◄◄ (REW) button to rewind the tape to the beginning.
   - ■ To stop REWIND, press the ■ (STOP) button.
   - ■ Camcorder stops automatically after rewinding.



5. Press the ►II (PLAY/STILL) button to start playback.
   - ■ You can see the video you shot in the Viewfinder.
   - ■ To stop the PLAY operation, press the ■ (STOP) button.



Note: You can also watch it on a TV screen, once connecting the camcorder to a TV or VCR. (see page 51)

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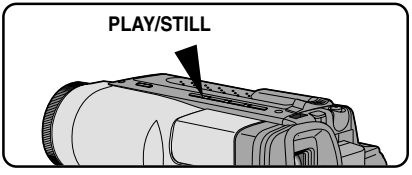
Basic Shooting

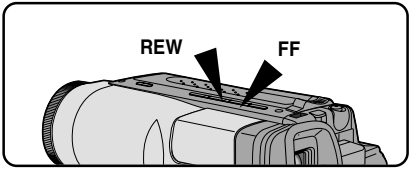
Viewing a Still Picture

- Press ▶II (PLAY/STILL) button during playback.
- To resume playback, press the ▶II (PLAY/STILL) button again.



Picture Search

- Press and hold ▶▶ (FF) or ◀◀ (REW) button during playback.
- To resume normal playback, release the button.



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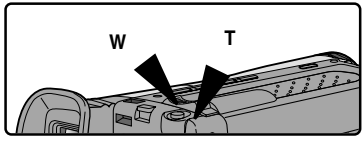
Advanced Shooting

Zooming In and Out

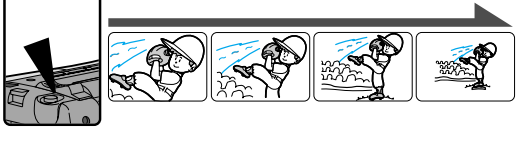
- ✤ Zoom works in CAMERA mode only.
- ✤ Zooming is a technique that allows you to increase or decrease the size of the subject in the picture. For a more professional looking recording, don't use the zoom function too often.
- ✤ You can also choose from two zoom speeds to suit different needs:
  - ■ Gradual zoom (9~12 seconds from WIDE/TELE to WIDE/TELE)
  - ■ High-Speed zoom (3~6 seconds from TELE/WIDE to WIDE/TELE)
- ✤ Use these features for different shots; Please note that over use of the zoom feature can lead to a reduction of battery pack usage time.

1. Move the zoom lever a little for a gradual zoom, move it further for a high-speed zoom.
   Your zooming is monitored on the OSD.



2. T (Telephoto) side:
   Subject appears closer.

3. W (Wide angle) side:
   Subject appears further away.



Note: MACRO

If you cannot get a sharp focus in telephoto zoom, move the lever to the “W” side until the focus is sharp.
You can shoot a subject that is at least 1 mm away from the lens surface in the wide angle position.

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Advanced Shooting

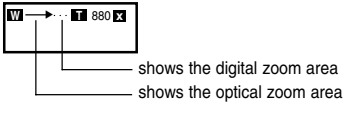
Digital Zoom

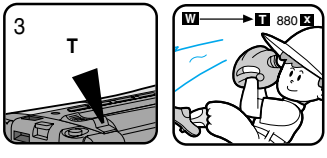
- Digital Zoom works in CAMERA mode only.
- Zooming more than 22x is achieved using digital technology.
- The picture quality deteriorates as you go towards the “T” side.
- It is recommended that you use the DIS (VP-W97) feature with the DIGITAL ZOOM for picture stability. (see page 33)

1. Set the power switch to CAMERA mode.

2. Make sure that the DIGITAL ZOOM feature is switched on. (see page 30)

3. When you move the ZOOM lever to “T” side, the picture will increase in size upto a maximum of 880 times. (VP-W95D : 990x)





4. If you do not want to use the DIGITAL ZOOM, set the D.ZOOM function to OFF in the MENU list. (see page 30)

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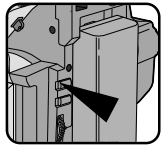
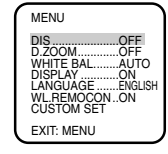
Advanced Shooting

Setting the DIGITAL ZOOM ON/OFF (VP-W97)

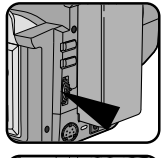
✤ The DIGITAL ZOOM feature is explained on page 29.

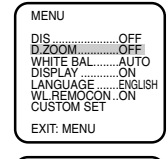
1. Set power switch to CAMERA mode.
2. Press the MENU ON/OFF button.
   ■ The MENU list will appear.



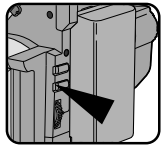


3. Turn the UP/DOWN dial to D. ZOOM.



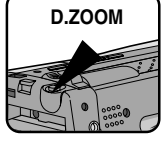


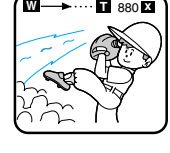
4. Press ENTER.
   ■ The DIGITAL ZOOM setting will change.
5. Press the MENU ON/OFF button to end setting.



In case of VP-W90/W95D

1. Set the power switch to CAMERA mode.
2. Press the D. ZOOM ON/OFF button.
   ■ The DIGITAL ZOOM will be displayed on the screen, and the DIGITAL ZOOM function will operate. (VP-W95D : 990x)
3. To deactivate DIGITAL ZOOM function, press the D.ZOOM button again.
   ■ The DIGITAL ZOOM indicators disappear from the screen.





Note: The D. ZOOM ON/OFF function will not operate in EASY mode.

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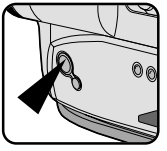
Advanced Shooting

EASY Mode (for Beginners)

✤ Even a beginner can easily make a recording using the EASY mode.
- The EASY mode only operates in CAMERA mode.

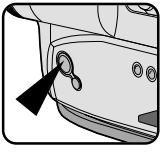
1. Set the power switch to CAMERA mode.

2. By pressing the EASY button, all the functions of the camera will be set to off and the recording settings will be set to the following basic mode.
   - Battery level, recording mode, counter, date/time, DIS ( ) will be displayed as the camcorder starts to run.
   - The word “EASY” will appear in the Viewfinder at the same time. However, the Date/Time will only be seen if it has been previously set. (DIS ( ) will be displayed on VP-W97 only)



3. Press the START/STOP button to start recording.
   - Recording will begin using the basic automatic environment settings.

4. Pressing the EASY button again turns the EASY mode off.
   - The camera will return to the settings that were set prior to the EASY mode being switched on.



Notes:
- In the EASY mode, the MENU, MF, DSE, P.AE and BLC functions are not available.
- If you want to use these functions, you must first switch the EASY mode off.
- The EASY settings will be stored in the camera (providing a good lithium battery has been installed).

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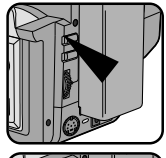
Advanced Shooting

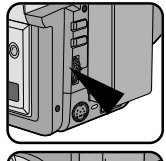
CUSTOM-Creating your own customized recording settings

✤ You can customize the settings and save them for future use.
- The CUSTOM function only operates in CAMERA mode.

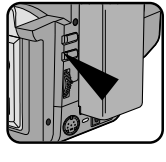
1. Set the power switch to CAMERA mode.
2. Press the MENU ON/OFF button, to bring up the MENU list.
3. Turn the UP/DOWN dial until CUSTOM SET is highlighted.
4. Press the ENTER button, the CUSTOM menu will appear.
   - Set the status of each item to what you want.
5. To exit the menu, press the MENU ON/OFF button twice.
6. By pressing the CUSTOM button, the CUSTOM settings will come up.
   - Date/Time and Title will only appear if these have been set in advance.
   - The word “CUSTOM” will be displayed on the Viewfinder at the same time.



MENU
DIS .....OFF
D.ZOOM.....OFF
WHITE BAL.....AUTO
DISPLAY .....ON
LANGUAGE .....ENGLISH
WL.REMOCON..ON
CUSTOM SET
EXIT: MENU



MENU
DIS .....OFF
D.ZOOM.....OFF
WHITE BAL.....AUTO
DISPLAY .....ON
LANGUAGE .....ENGLISH
WL.REMOCON..ON
CUSTOM SET
EXIT: MENU



CUSTOM SETTING
DIS .....ON
D.ZOOM .....OFF
WHITE BAL. .....AUTO
DATE/TIME .....OFF
TITLE .....OFF
PROGRAM AE ....AUTO
DSE SELECT .....OFF
EXIT: MENU

Example: When the CUSTOM SET is set as follows;

CUSTOM SETTING
DIS .....ON
D.ZOOM .....ON
WHITE BAL. .....INDOOR
DATE/TIME .....DATE/TIME
TITLE .....OFF
PROGRAM AE ....
DSE SELECT .....B&W
EXIT: MENU

Pressing the CUSTOM button, displays

Hi8 STBY
880x 0:00:02
B&W CUSTOM
CONGRATURATION
TITLE 0:00
CONTINUE 1.JAN.2004

7. Press the START/STOP button to start recording.
   - Recording will begin using the new CUSTOM settings.
8. To switch Custom off, press the CUSTOM button once.
   - The camera will revert to the settings that were set prior to the CUSTOM mode being switched on.

Notes: ■ The CUSTOM settings will be stored in the camera (providing a good lithium battery has been installed).

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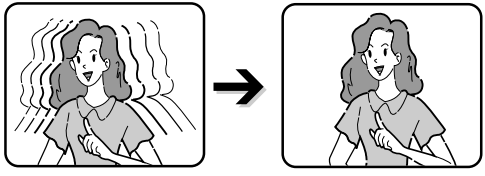
Advanced Shooting

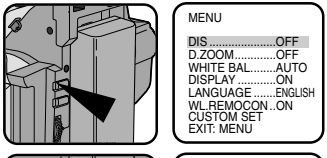
DIS (Digital Image Stabilizer, VP-W97 only)

- ✤ The DIS function works in CAMERA mode only.
- ✤ DIS (Digital Image Stabilizer) is a handshake compensation function that compensates for any shaking or moving of the hand holding the camcorder (within reasonable limits).
- ✤ It provides more stable pictures when:
  - ■ Recording with the Zoom.
  - ■ Recording a small object close-up
  - ■ Recording and walking at the same time
  - ■ Recording through the window of a vehicle

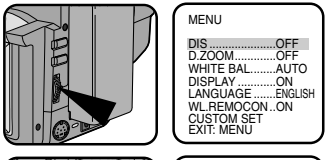


1. Set the power switch to CAMERA mode.

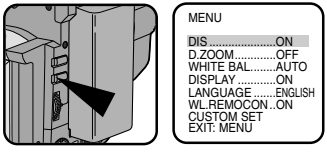
2. Press the MENU ON/OFF button.
   - ■ The MENU list will appear.



3. Turn the UP/DOWN dial until DIS is highlighted.



4. Press ENTER.
   - ■ The DIS setting will change.



5. Press MENU ON/OFF button to end the setting.
   - ■ When the DIS is set, the DIS mark ([✋]) will displayed on the OSD.

Notes:
1. It is recommended to deactivate the DIS function when using a tripod.
2. The DIS function will not operate in DSE mode.
3. The MENU ON/OFF function will not operate in EASY mode.

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Advanced Shooting

MF/AF (Manual Focus/Auto Focus)

- ✤ The MF/AF function works in CAMERA mode only.
- ✤ In most situations, it is better to use the Automatic Focus feature, as it enables you to concentrate on the creative side of your shooting.
- ✤ Manual focusing may be necessary under certain conditions that make automatic focusing inadequate.

Auto Focusing

- ✤ The AF (Auto Focus) mode is set automatically when you switch on the Power switch.
- ✤ If you are inexperienced with camcorders, we recommend that you use the Auto Focus mode.

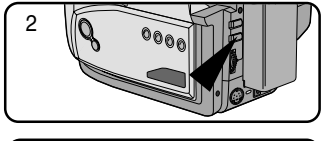
Manual Focusing

- ✤ In the following situations, you should obtain better results by adjusting the focus manually.

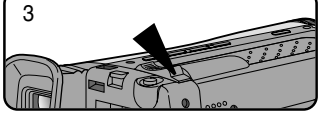
a. A picture containing several objects, some close to the camcorder, others further away.
b. A person enveloped in fog or surrounded by snow.
c. Very shiny or glossy surfaces like a car.
d. People or objects moving constantly or quickly like an athlete or crowd.

1. Set the power switch to CAMERA mode.

2. Press the MF button.
   The MF symbol will appear in the viewfinder.



3. Zoom in on the subject to be shot by pushing the ZOOM tab to the “T” side.



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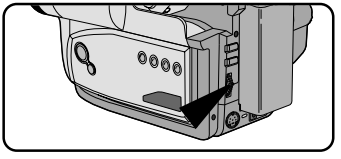
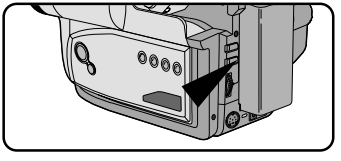
Advanced Shooting

4. Turn the UP/DOWN dial up or down until the object is focused.
5. If the picture won't focus, zoom out until it becomes clear.



6. To return to AF(Auto Focus), press the MF button again.
   The MF symbol will disappear from the viewfinder.



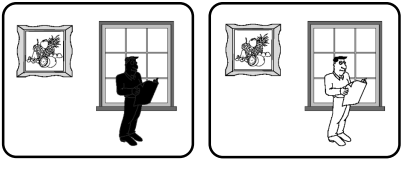
Note: The MF function will not operate in EASY mode.

BLC

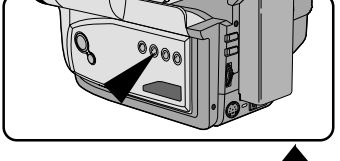
BLC works in CAMERA mode.
Back lighting exists when the subject is darker than the background, such as when:

- The subject is placed in front of a window.
- The person to be shot is wearing white or shiny clothes and is placed against a bright background; the person's face is too dark to distinguish their features.
- The subject is outdoors and the background is overcast.
- The light source is too bright.
- The subject is against a snowy background.

*** BLC off** *** BLC on**



1. Set the power switch to CAMERA mode and press the BLC button.
   ■ Normal - BLC - Normal (BLC enhances only the subject).



Note: BLC function will not operate in P.AE or EASY mode.

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Advanced Shooting

PROGRAM AE (Automatic Exposure)

- ✤ The PROGRAM AE function works in CAMERA mode only.
- ✤ The PROGRAM AE modes allow you to adjust shutter speeds and apertures to suit different recording conditions.
- ✤ There are 6 automatic exposure modes.
- ✤ The flicker appears when photographing from the interior fluorescent lamp lower part.

1. **AUTO mode**
   - ■ Auto balance between the subject and the background.
   - ■ Used in normal conditions.
   - ■ The shutter speed automatically varies from 1/50 to 1/250 second, depending on the picture.
2. **SPORTS mode ( )**
   - ■ For shooting people or objects moving quickly; you should able to play back the picture in slow motion on an 8 mm VCR or stop on a given image with very little blur.
3. **PORTRAIT mode ( )**
   - ■ For focusing on the subject and not the background.
     The PORTRAIT mode is most effective when used outdoors.
   - ■ The shutter speed automatically varies from 1/50 to 1/1000 second, depending on the picture.
4. **SPOTLIGHT mode ( )**
   - ■ To shoot correctly when there is only light on the subject and not the rest of the picture.
   - ■ The shutter speed is 1/50 second.
5. **SAND/SNOW mode ( )**
   - ■ For shooting when the people or objects are darker than the background because of reflected light from sand or snow.
   - ■ The shutter speed automatically varies from 1/50 to 1/250 second, depending on the picture.
6. **HSS (High Speed Shutter) mode ( )**
   - ■ For shooting fast-moving subjects such as the players in golf or tennis games.
   - ■ You may need to light the shooting area.

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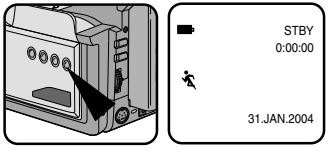
Advanced Shooting

Setting the PROGRAM AE (Automatic Exposure) mode

1. Set the power switch to CAMERA mode.

2. Press the P.AE button, the ( ) symbol will be displayed.



3. Press the P.AE button until the appropriate symbol is displayed.
   (→ → → →)
   ■ No Display : Auto mode.

Notes:

- The P.AE mode chosen will be recorded on the tape.
- To end the P.AE function, press the P.AE button once or several times, until the P.AE Icon is no longer displayed.
- The P.AE function will not operate in EASY or CUSTOM mode.
- The BLC function will not operate in P.AE mode.

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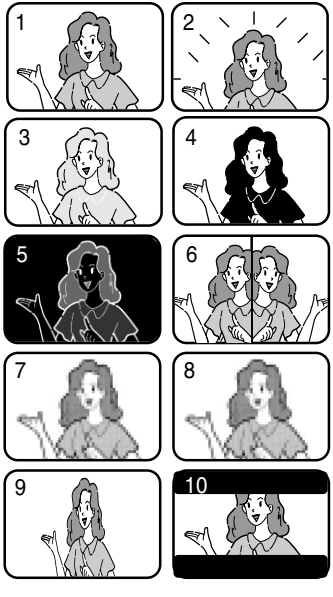
Advanced Shooting

DSE (Digital Special Effects) in CAMERA mode

- ✤ The digital effects enable you to give a creative look to your recording by adding various special effects.
- ✤ Select the appropriate digital effect for the type of picture that you wish to shoot and the effect that you wish to give.
- ✤ There are several DSE modes. (VP-W90/W95D: 8 modes, VP-W97: 9 modes)

1. Normal picture: This mode uses a normal image without DSE effect .
2. STROBE: This mode works by inserting cutting effect on the image. As a reference, there are 50 fields in the normal picture. (VP-W97 only)
3. SEPIA: This mode gives the image a reddish brown pigment.
4. B&W(Black & White): This mode makes the image black and white.
5. NEG.(Negative): This mode reverses the colour of the image creating a negative picture affect.
6. MIRROR: This mode cuts the image in half, using a mirror effect.
7. ART: Adds a paint-like effect, called solarization, to the image.
8. MOSAIC: This mode gives the image a checkered design.
9. 16:9(WIDE): This mode provides 16:9(WIDE) television display.
10. CINEMA: This mode covers upper/lower portion of the screen to give a movie-like effect.



Note: DSE function will not operate in EASY mode.

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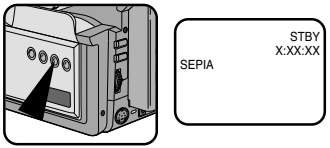
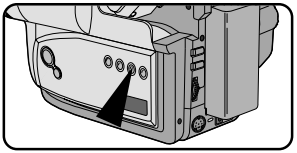
Advanced Shooting

Selecting and recording DSE effects

1. Set the power switch to CAMERA mode.
2. Press the DSE button, STROBE or SEPIA will be displayed.
3. Keep pressing the DSE button, until the desired mode is displayed.
4. Press the START/STOP button to start recording.
5. To exit the DSE functions, press the DSE button once or several times until no DSE mode is displayed on the Viewfinder.





Notes:
- It is recommended that you set the DSE mode in STBY mode.
- DSE functions will not operate in EASY mode.

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Advanced Shooting

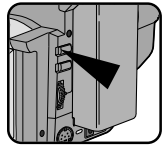
Setting and Recording the DATE/TIME

- ✤ Setting and recording the date/time feature works in CAMERA mode only.
- ✤ You can record the date/time on your recording, so you know when it was made. The date and time are recorded whenever they are displayed in the viewfinder.

Setting a DATE/TIME

- ✤ Setting DATE/TIME is possible in STANDBY of CAMERA mode only.

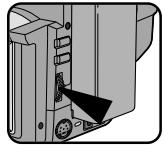
1. Make sure that you have installed the LITHIUM BATTERY. (see page 17)
   The LITHIUM BATTERY is needed to maintain the clock.
2. Set the power switch to CAMERA mode.
3. Press the MENU ON/OFF button, then the MENU list will appear.



MENU

DIS .....OFF
D.ZOOM.....OFF
WHITE BAL.....AUTO
DISPLAY .....ON
LANGUAGE .....ENGLISH
WL.REMOCON..ON
CUSTOM SET
NEXT: MENU

4. Turn the UP/DOWN dial until CLOCK SET is highlighted.

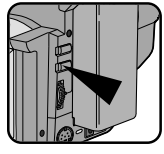


MENU

CLOCK SET
TITLE SET
TITLE .....OFF
D/TITLE COLOUR ..WHITE
C.RESET
DEMO.....OFF

EXIT: MENU

5. Press ENTER.
   - ■ The DATE and TIME is displayed.
   - ■ The area BLINKING indicates which part will be changed. The year will be the first to blink.

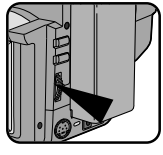


CLOCK SETTING

0:00
1. JAN. 2004

EXIT: MENU

6. Turn the UP/DOWN dial to set a desired year.



CLOCK SETTING

0:00
1. JAN. 2005

EXIT: MENU

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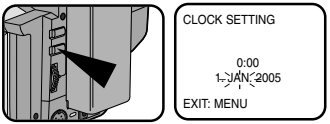
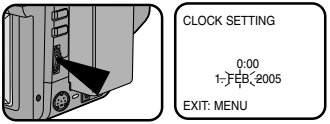
Advanced Shooting

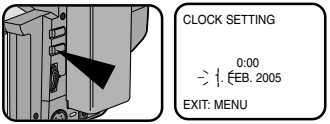
7. Press ENTER.
   - The month setting will blink.



8. Turn the UP/DOWN dial to set the desired month.



9. Press ENTER.
   - The day setting will blink.

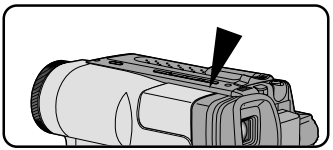


10. You set the year, hours and minutes by following the same procedures used for setting the year and month.

11. Press ENTER after setting the minutes, the clock setting screen will disappear. The entered date and time will then be displayed.

Recording a DATE/TIME

1. Make sure that you have set the DATE/TIME.
2. Set the power switch to CAMERA mode.
3. Press the DATE/TIME button.
   - To record the date only, press the DATE/TIME button once.
   - To record the date and time, press the DATE/TIME button twice.
4. Press the START/STOP button to start recording.



Notes:

- If your date and time settings are not maintained in the camcorder, it means the LITHIUM BATTERY is discharged and should be replaced. (see page 17)
- You cannot hide the recorded date or time during playback.
- The DATE/TIME function will not operate in EASY or CUSTOM mode.

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Advanced Shooting

Selecting and Recording a Title

- ✤ Selecting and recording a TITLE is possible in the CAMERA mode only.
- ✤ The TITLE feature allows you to select a preset title stored in the camcorder's memory.
- ✤ You can also select the language of the titles.

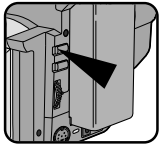
Selecting a Language and Setting a Title

- ✤ Selecting a language is possible in both STANDBY in CAMERA modes.
- ✤ The factory default language is ENGLISH but you can change the language.

1. Make sure that you have installed the LITHIUM BATTERY or have the adapter attached.

2. Set the power switch to CAMERA mode.

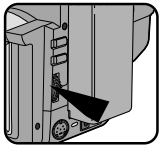
3. Press the MENU ON/OFF button.
   The MENU list will be displayed.



MENU

DIS .....OFF
D.ZOOM .....OFF
WHITE BAL. .....AUTO
DISPLAY .....ON
LANGUAGE .....ENGLISH
WL.REMOCON ...ON
CUSTOM SET
NEXT: MENU

4. Turn the UP/DOWN dial until TITLE SET is highlighted.

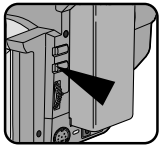


MENU

CLOCK SET
TITLE SET
TITLE.....OFF
D/TITLE COLOUR ..WHITE
C.RESET.....0:00:00
DEMO .....OFF

EXIT: MENU

5. Press ENTER.
   - ■ Alist of available languages will appear.



LANGUAGE
ENGLISH [HAVING FUN]
FRANÇAIS
DEUTSCH
ITALIANO
ESPAÑOL
РУССКИЙ

EXIT: MENU

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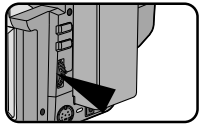
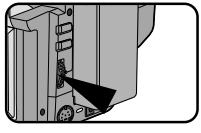
Advanced Shooting

6. Turn the UP/DOWN dial to select the appropriate language.
   - ■ You may select from ENGLISH/FRANÇAIS/DEUTSCH/ITALIANO/ ESPAÑOL/РУССКИЙ.



7. Press ENTER.
   - ■ Then, the title list in the launguage you chose will appear.

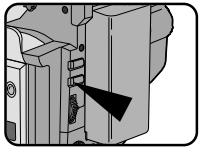
8. Turn the UP/DOWN dial to highlight the TITLE you desire.



9. Press ENTER.
   - ■ The selected title will appear on the screen for 2 ~ 3 seconds and will then disappear. At the same time the camcorder will return to the menu mode.

Recording a Title

Note: ■ Make sure that you have selected a TITLE.



1. Set the power switch to CAMERA mode.
2. Press MENU.
3. Turn the UP/DOWN dial until TITLE.....OFF is highlighted.
4. Press ENTER to choose between OFF, AUTO-10S and CONTINUE.
5. Press the START/STOP button to record the title with your recording.
   - ■ If you want to change the title recording time, select title recording time. Select from: (OFF, AUTO-10S, CONTINUE) on MENU.

Notes: ■ The title moves horizontally from the right side to the left side 10 seconds after you turn on the title.
■ The MENU ON/OFF function will not operate in EASY or REC mode.

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Advanced Shooting

Fade In and Out

- ✤ The FADE function works in CAMERA mode only.
- ✤ You can give your films a professional look by using special effects such as fading in and out at the beginning or end of a sequence.

To Start Recording

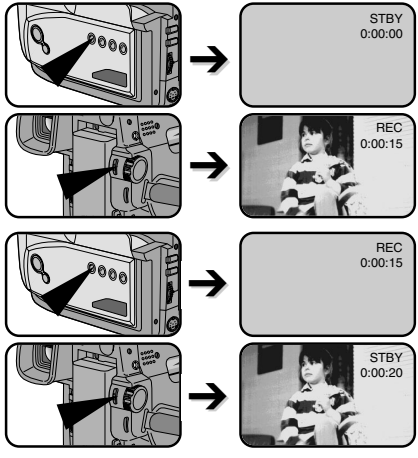
1. Before recording, hold down the FADE button.
   The picture and sound gradually disappear (fade out).

2. Press the START/STOP button and at the same time release the FADE button.
   Recording starts and the picture and sound gradually appear (fade in).

To Stop Recording (using FADE IN / FADE OUT)

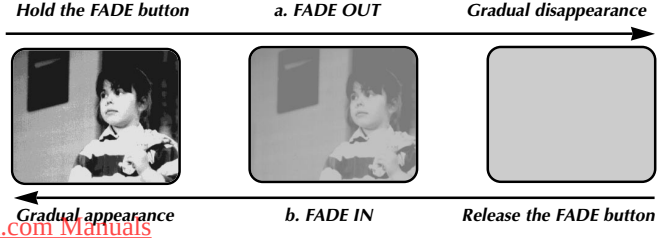
3. When you wish to stop recording, hold down the FADE button.
   The picture and sound gradually disappear (fade out).

4. When the picture has disappeared, press the START/STOP button to stop recording.



a. FADE OUT
(Approx. 4 seconds)

b. FADE IN
(Approx. 4 seconds)



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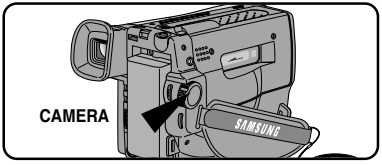
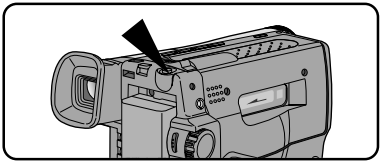
Snap Shot (VP-W97 only)

✤ With the SNAP SHOT feature, your camcorder can function like a normal film camera, allowing you to take single still pictures.
- The SNAP SHOT function only operates in the CAMERA mode.

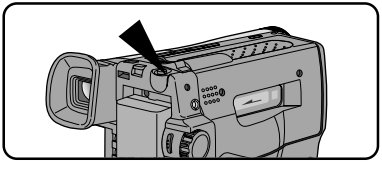
1. Set the power switch to CAMERA mode.



2. Press the SNAP SHOT button when you have the picture you wish to capture.
   - ■ At this time, be careful not to shake your camcorder because the image will be indistinctly recorded.



3. Once the SNAP SHOT button has been pressed, your camcorder will automatically return to STANDBY mode after approximately 6 seconds.
   - ■ You can check the remaining available SNAP SHOT space by looking at the time displayed on the screen.
   - ■ To stop SNAP SHOT shooting, press the SNAP SHOT button again.



Notes:

- ■ If the camcorder is knocked or shaken while taking a SNAP SHOT, the image may be blurred.
- ■ The SNAP SHOT is activated in recording.
- ■ When the SNAP SHOT button is pressed in CAMERA mode with no tape installed, a still image will be displayed in the viewfinder.

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Advanced Shooting

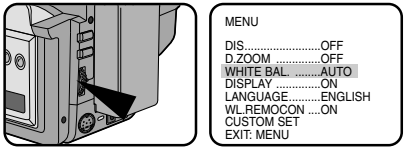
White Balance

- ✤ WHITE BALANCE is a recording function that preserves the unique colour of the object in any shooting condition.
- ✤ You may select the appropriate WHITE BALANCE mode to obtain good colour quality of the image.
  - AUTO: This mode is generally used to control the WHITE BALANCE automatically.
  - INDOOR ( ): It controls WHITE BALANCE according to the indoor ambience.
  - OUTDOOR ( ): It controls WHITE BALANCE according to the outdoor ambience.

Setting a White Balance Mode

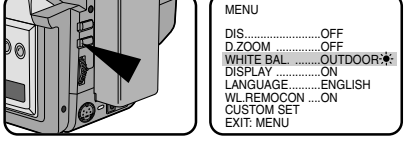
1. Set the power switch to CAMERA mode.

2. Press the MENU ON/OFF button, then the MENU list will be displayed.

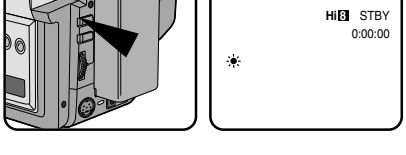


3. Turn the UP/DOWN dial until WHITE BAL. .....AUTO is highlighted.

4. Press ENTER.
   - ■ You can set it to INDOOR or OUTDOOR by pressing the ENTER button.



5. Press MENU ON/OFF button to exit the WHITE BALANCE setting screen.



Note: The MENU ON/OFF function will not operate in EASY or REC mode.

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Selecting the OSD LANGUAGE

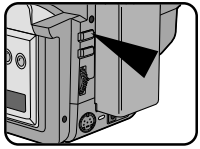
1. Press the MENU ON/OFF button.
   - The MENU list will appear.

2. Turn the UP/DOWN dial to LANGUAGE and press the ENTER button.

3. Turn the UP/DOWN dial to select the appropriate language.
   - You may select languages from ENGLISH/FRANÇAIS/ESPAÑOL.

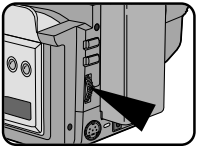
4. Press the ENTER button.

5. To exit the menu, press the MENU ON/OFF button.
   - The OSD changes with the language which is selected.



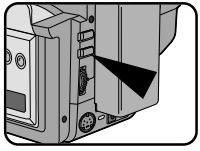
MENU

DIS .....OFF
D.ZOOM .....OFF
WHITE BAL. .....AUTO
DISPLAY .....ON
LANGUAGE .....ENGLISH
WL.REMOCON...ON
CUSTOM SET
EXIT: MENU



MENU

DIS .....OFF
D.ZOOM .....OFF
WHITE BAL. .....AUTO
DISPLAY .....ON
LANGUAGE .....ENGLISH
WL.REMOCON...ON
CUSTOM SET
EXIT: MENU



LANGUAGE
[ENGLISH]

ENGLISH
FRANÇAIS
ESPAÑOL

EXIT: MENU

Notes:

- The factory default language is ENGLISH.
  You can change the language.
- Selecting a language is possible in CAMERA mode or VCR mode.

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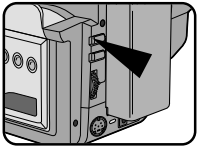
Advanced Shooting

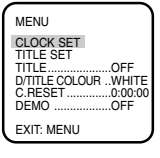
Demonstration

- ✤ Demonstration automatically shows you the major functions that are included with your camcorder so that you may use them more easily.
- ✤ The DEMO function is only available in CAMERA mode when tape is not in the camcorder.
- ✤ The Demonstration operates repeatedly until the POWER switch is set to OFF.

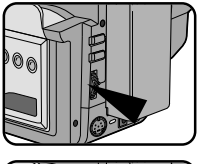
1. Set the POWER switch to CAMERA mode.

2. Press MENU ON/OFF button, then the MENU list will appear.

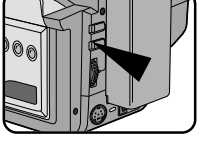




3. Turn the UP/DOWN dial so that DEMO is highlighted.



4. Press ENTER to select ON.
   ■ Demonstration will start.



5. Set the power switch to OFF to end the Demonstration.

Note: The MENU ON/OFF function will not operate in EASY or REC mode.

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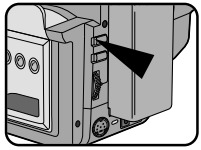
Setting the Date/Title Colour

1. Set the power switch to CAMERA mode. (see page 22)

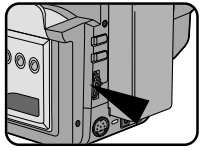
2. Press the MENU ON/OFF button.
   ■ The MENU list will appear.



MENU
CLOCK SET
TITLE SET
TITLE.....OFF
D/TITLE COLOUR ..WHITE
C.RESET 0:00:00
DEMO .....OFF

EXIT: MENU

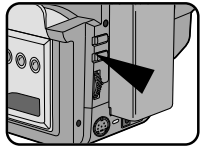
3. Turn the UP/DOWN dial to D/TITLE COLOUR.....WHITE.



MENU
CLOCK SET
TITLE SET
TITLE.....OFF
D/TITLE COLOUR ..WHITE
C.RESET 0:00:00
DEMO .....OFF

EXIT: MENU

4. Press ENTER.
   ■ A list of available colour will appear.

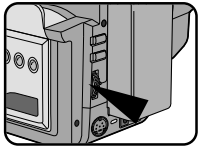


DATE/TITLE COLOUR SELECT
[WHITE]
WHITE
YELLOW
CYAN
MAGENTA
RED
GREEN
BLUE

EXIT: MENU

5. Turn the UP/DOWN dial to select the appropriate colour.

6. Press ENTER.



DATE/TITLE COLOUR SELECT
[YELLOW]
WHITE
YELLOW
CYAN
MAGENTA
RED
GREEN
BLUE

EXIT: MENU

7. Press the MENU ON/OFF button to end setting.
   ■ The title and Date/Time will appear in the colour you chose .

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Advanced Shooting

Lighting Techniques

- ✤ When you use your camcorder, there are normally only two main recording environments.
  - You will be shooting outdoors (Normal recording or through an ND (Neutral Density) filter).
  - You will be shooting indoors (Video light recommended or required).
- ✤ The single greatest influence on picture quality is the level of brightness, measured in lux.
- ✤ The following table lists a few common situations, the corresponding level of brightness and any associated recommendations.

Situations	Brightness (lux)	Recommendations
◆ Snow-covered mountains or fields. ◆ Sandy beach on a hot summer's day.	100,000 100,000	ND filter recommended.
◆ On a sunny day in the middle of the afternoon. ◆ On a gloomy day, an hour after the sunrise. ◆ Office with fluorescent lighting near to a window. ◆ On a sunny day, an hour before the sunset. ◆ Department store counter.	35,000 2,000 1,000 1,000 500 to 700	Normal recording.
◆ Room lit by two 30W fluorescent lights.	300	Video light recommended.
◆ Arcade at night. ◆ Candle light.	150 to 200 10 to 15	Video light required.

After Shooting

1. Eject the tape that you have shot. (see page 22)
2. If you want to protect the tape against accidental erasing, move the red tab on the cassette to cover the hole.
3. Set the POWER switch to OFF.
4. Close the LENS cover.
5. Remove the BATTERY PACK from the camcorder.

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Playing back the Tape

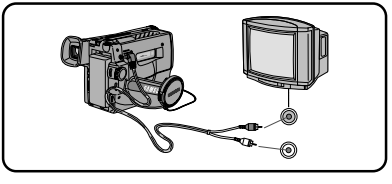
- To view a tape that you have recorded.
- Playback function works in PLAYER mode only.
  - Watch on a TV monitor: recommended for indoor use.

To watch on a TV

- It is better to use a TV monitor to view tapes indoors.
- To play a tape back, the TV must feature a compatible colour system. (see page 56)

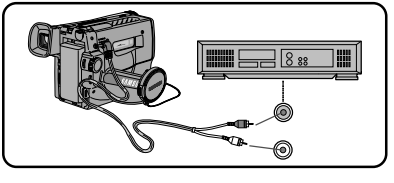
Connecting to a TV which has an Audio and Video input jack

- Use the Audio/Video cable supplied with your camcorder.
  - The yellow one: Video
  - The white one: Audio(L)
- You can use a SCART adapter, supplied optionally.
- A provided SCART adapter will be one of the following two types.
  - Stereo type
  - Mono type



Connecting to a TV which has no Audio and Video input jack

- You can connect your camcorder to a TV through a VCR.
  - Set the input selector on the VCR to LINE.
  - The yellow one: Video
  - The white one: Audio(L)
  - You can use a SCART adapter (supplied optionally).
- To view the cassette on the television screen, select the channel reserved for your VCR on the television. (Refer to your VCR or television instruction book.)



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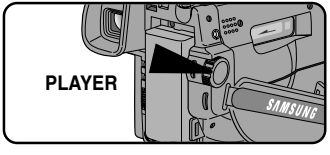
Playing back the Tape

Note:

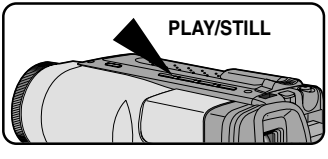
- VP-W90/W95D/W97 feature a monaural audio system.
  If your TV or VCR are stereo, connect the audio cable to the input marked “L” of the TV or VCR.
- You can use the S-VIDEO cable to obtain better quality pictures if you have the S-VIDEO connector on your TV.

Playback

1. Use the TV/VIDEO button to select VIDEO on your TV.
2. Connect a power source (battery or AC Power Adapter) to the camcorder.
   Set the power switch to PLAYER mode.
3. Insert the tape you want to watch.
   - Make sure that STOP is displayed.



4. Press the ▶II (PLAY/STILL) button.
   - The recorded pictures should appear on the TV after 2 to 3 seconds.
   - Press ■ (STOP) to stop playing.
   - If the tape reaches its end during playback, the tape will rewind automatically.



Note:

- This camcorder does not support LP recording and playback.
- The playback system (Hi8/8mm) is selected automatically, depending on the tape format.
- VP-W90/W95D/W97 can playback both Hi8 and 8mm.

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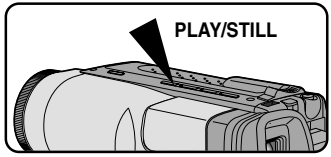
Playing back the Tape

Various Functions in PLAYER mode

To view a STILL picture (Playback pause)

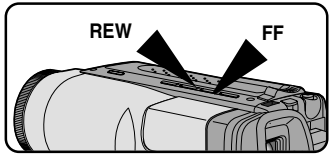
- Press ▶II (PLAY/STILL) button during playback.
- To resume playback, press ▶II (PLAY/STILL) button again.



Note: Your camcorder will automatically stop if it is left for more than 5 minutes in STILL mode without operation in order to prevent tape and head wear.

To locate a scene (picture search)

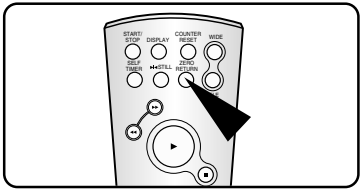
- Press ▶▶ (FF) or ◀◀ (REW) buttons during playback. To resume normal playback, release the buttons.



Zero RETURN (VP-W97 only)

- ✤ The ZERO RETURN function works in STOP of PLAYER mode.
- ✤ You can Fast Forward or Rewind to 0:00:00 automatically.

1. Set power switch to PLAYER mode.
   - ■ Make sure that STOP is displayed.
2. Press ZERO RETURN button.
   - ■ Z.RTN should displayed.
   - ■ FF or REW works automatically.



Note: The ZERO RETURN button does not work when the TAPE COUNTER reads 0:00:00.

Notes:
- ■ Set the COUNTER RESET to “C.RESET 0:00:00” in MENU mode at the start of the cassette or the required sequence.
- ■ When you wish to find this point on the tape again, press ZERO RETURN button when playback is stopped.

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Playing back the Tape

DSE in PLAYER mode

✤ The procedure for using DSE in PLAYER mode is the same as the procedure for using DSE in CAMERA mode, except that the power switch must be set to PLAYER instead of CAMERA.
Please refer to pages 36 and 37.

Note: The STROBE, NEG., MIRROR, MOSAIC, CINEMA and 16:9(WIDE) effects will not operate when your camcorder is in PLAYER mode.

✤ Pressing the DSE button will scroll through the available settings.
Stop at the one you require.

Maintenance

Cleaning and Taking care of the Camcorder

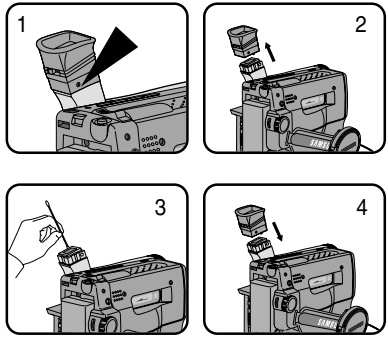
Cleaning the Viewfinder

◆ **Releasing the Eyepiece**

1. Pull the viewfinder up and then turn the screw counter-clock-wise.
2. Pull the EYEPIECE away from the viewfinder.
3. Clean the EYEPIECE and the VIEWFINDER screen with a soft cloth and cotton swab or a blower.

◆ **Reattaching the Eyepiece**

4. Reposition the EYEPIECE back on the VIEWFINDER.
5. Insert and tighten the screw.



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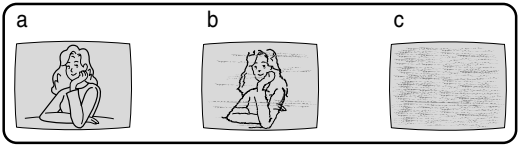
Cleaning the Video Heads

- ✤ To ensure normal recording and clear pictures, clean the video heads.
- ✤ When the playback pictures are noisy or hardly visible, the video heads may be dirty.

a. Normal Picture
b, c. Noisy Picture
If this happens, clean the video heads with a dry type cassette cleaner.



1. Set the power switch to PLAYER mode.
2. Insert the cleaning tape.
3. Press the ►II (PLAY/STILL) button.
4. Press the ■ (STOP) button after about 30 seconds.

Check the quality of the picture using a known good video cassette.
If it is still bad, repeat the operation.
If the problem continues, contact your local authorized service centre.

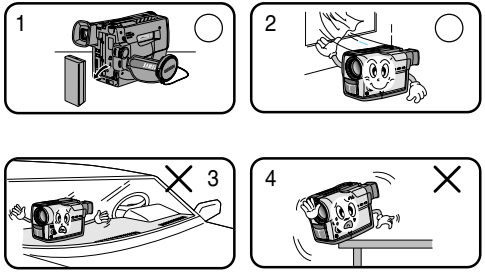
Storing the Camcorder

1. You must detach the BATTERY PACK from the camcorder when not in use.

2. Keep the camcorder in a ventilated, dry/warm place.

3. Store the camcorder were temperature changes will be minimal. (avoid places such as a garage, loft space or car.)

4. Store the camcorder on a stable surface.



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Using Your Camcorder Abroad

Using Your Camcorder Abroad

- ✤ Each country or area has its own electric and TV colour system.
- ✤ Before using your camcorder abroad, check the following:

Power sources

- ■ You can use your camcorder in any country or area that uses 100V to 240V, 50/60 Hz.
- ■ Were necessary, use a commercially available AC plug adapter, depending on the style of plug used.

Colour system

- ■ You can always view your recordings on the Viewfinder.
  However, to view a recording on a television or to make a copy to a video cassette recorder, the television or VCR must be PAL: VP-W90/W95D/W97- compatible and have the appropriate audio/video jacks.

- ✤ **PAL-compatible area**
  Australia, Austria, Belgium, Bulgaria, China, CIS, Czech Republic, Denmark, Egypt, Finland, France, Germany, Greece, Great Britain, Holland, Hong Kong, Hungary, India, Iran, Iraq, Kuwait, Libya, Malaysia, Mauritius, Rumania, Saudi Arabia, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Syria, Thailand, Tunisia, etc.

- ✤ **NTSC-compatible area**
  Bahamas, Canada, Central America, Japan, Mexico, Philippines, Korea, Taiwan, United States, etc.

Note: You can make recordings with your camcorder anywhere in the world.

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Troubleshooting Check

Troubleshooting Check

✤ Before contacting a service centre, perform the following simple checks. They might save you the time and the expense of an unnecessary call.

Self Diagnosis Display

Display	Blinking	Inform that...	Action
	slow	the battery pack is almost discharged.	Exchange it with a charged one.
	fast	the battery pack is fully discharged.	Exchange it with a charged battery.
TAPE END!	slow	the tape has almost reached its end.	Prepare a new one.
TAPE END!	no	the tape reached its end.	Change to a new one.
TAPE!	slow	there is no tape in the camcorder.	Insert a tape.
PROTECTION!	slow	the tape is protected from recording.	Check the red tab, on the tape.
D.EMG C.EMG R.EMG L.EMG	slow	the camcorder has some mechanical fault.	1. Eject the tape. 2. Set to OFF 3. Detach the battery. 4. Reattach the battery. * Please contact your local authorized service centre if the problem continues.
	slow	moisture condensation has formed in the camcorder.	see page 60.

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Troubleshooting Check

Checking

- ✤ If you run into any problem using the camcorder, use the following table to try and resolve the problem.
- ✤ If these instructions do not allow you to solve the problem, take a note of:
  - ■ The model and serial number marked on the bottom of the camcorder.
  - ■ Your warranty, if applicable.
- ✤ Then contact your nearest authorized service centre.

Symptom	Explanation/Solution
You cannot switch the camcorder on.	◆ Check the battery pack (see page 19) or the AC power adapter. (see page 18)
Start/Stop does not operate while shooting.	◆ Check the POWER set it to CAMERA. ◆ You have reached the end of the cassette. ◆ Check the record protection tab on the cassette. (see page 22)
The camcorder goes off automatically.	◆ You have left the camcorder set to STANDBY for more than 5 minutes without using it.(see page 24) ◆ The battery pack is fully used up. (see page 21)
The battery pack is quickly exhausted.	◆ The atmospheric temperature is too low. (see page 21) ◆ The battery pack has not been charged fully.(see page 19) ◆ The battery pack is completely dead, and cannot be recharged. Use another battery pack.
You cannot eject the cassette from the compartment.	◆ The battery pack is fully discharged. ◆ A mechanical fault may have occurred. (see page 57)
The DATE/TIME indicator flashes more than 2 times when you set the camcorder to CAMERA.	◆ The lithium battery is not installed or is fully used up. (see page 17)
The playback picture is in poor quality.	◆ The video heads might be dirty. (see page 55)
You can do nothing with the camcorder.	◆ A mechanical fault may have occurred. (see page 57)

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Troubleshooting Check

Symptom	Explanation/Solution
A vertical strip appears when you shoot a bright subject against a dark background. (candle flame, for example)	◆ The contrast between the subject and the background is too great for the camcorder to operate normally. Make the background bright to reduce the contrast or use the BLC function while you are shooting. (see page 35)
The image in the viewfinder is blurred.	◆ The view finder lens has not been adjusted. Turn the viewfinder focus ring until the screen comes into sharp focus. (see page 25)
The tape does not move when you press the play, Fast Forward or Rewind buttons.	◆ Set the POWER switch to PLAYER. ◆ You have reached the beginning or end of the cassette.
The Date Time or Title disappeared even though you had it set.	◆ The lithium battery is not installed or is fully used up. (see page 17)

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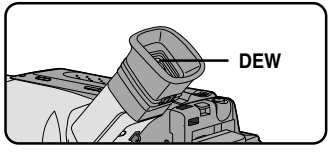
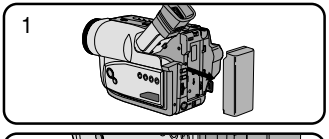
Troubleshooting Check

Moisture Condensation

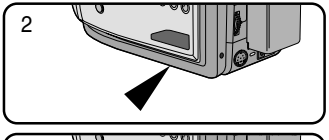
- If the camcorder is brought directly from a cold place to a warm place, moisture may form inside the camcorder, on the surface of the tape, or on the lens. In this condition, the tape may stick to the head drum and be damaged or the unit may not operate correctly.
  To prevent possible damage under these circumstances, the camcorder has the built-in moisture sensor.
- If there is moisture inside the camcorder, "DEW( )" is displayed.
  If this happens, none of the functions except cassette ejection will work.
  Open the cassette compartment and remove the battery for at least two hours in a warm dry room.
- If the DEW protection feature unexpectedly activated and you want to override it: (Please make sure that the condensation has disappeared completely.)



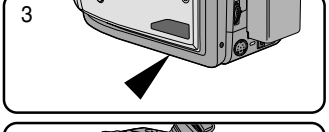
1. Take the battery pack out.



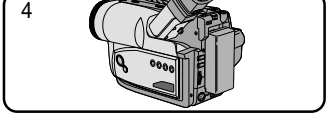
2. Take the lithium battery out.



3. Put the lithium battery back.



4. Put the battery pack back.



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Specifications

✤ These technical specifications and design may be changed without notice.

System	VP-W90/W95D/W97
Recording system	Video: 2 rotary heads Helical scanning FM Audio: FM monaural system
Video signal	PAL colour, CCIR standard
Usable cassette	Hi8 or 8mm
Tape speed	SP: 20.051 mm/sec
Speed mode	Record: SP only Playback: SP only
Recording time	P5-120: 120 min.
FF or REW time	P5-120: approx. 8 min.
Image device	CCD (Charge Coupled Device)
Optical zoom ratio	22x
Focal length: f	3.6 ~ 79.2 mm
F	1.6
Filter diameter	46 mm
Focus system	Inner
Macro	Auto wide macro
Min. Illumination	0.3 lux (visible)
Connectors	
Video out	Mini jack, 1 Vp-p, 75 ohms, Unbalanced
Audio out External mic	Mini jack, -7.7 dBs, imp.: less than 820 ohms Monaural ø3.5 (VP-W95D/W97)
General	
Power requirement	DC 8.4 V (1A)
Power consumption	VP-W90/W95D: 3.3 W, VP-W97: 3.8 W
Built-in mic	Condenser mic, omni-directional
Operating temperature	0°C to 40°C (32°F to 104°F)
Dimension (W*H*D)	101*104*174 (mm)
Weight	690g

Downloaded From VideoCamera-Manual.com Manuals

Index

- A -

ABROAD 56
AC POWER ADAPTER 18
AF 34
AUDIO 51
AUTO FOCUSING 34
AUTO MODE 36
AUTO POWER OFF 24

- B -

BATTERY 19
BATTERY LEVEL 21
BATTERY PACK 19
BLC 35

- C -

CAMERA 18
CASSETTE 22
CASSETTE HOLDER 11
CLEANING 55
CONTENTS 2
CUSTOM 32

- D -

DATE 40
DATE/TIME 40
DC CABLE 18
DEMO 48
DEW 60
DIGITAL ZOOM 29
DIMENSION 61
DIS 33
DISPLAY 12
DSE 38

- E -

EASY 31
EJECT 22

- F -

FADE IN 44
FADE OUT 44
FF (FAST FORWARD) 53
FILTER DIAMETER 61
FOCAL LENGTH 61

- H -

HAND STRAP 16
Hi8 52

- L -

LENS 9
LITHIUM BATTERY 17

- M -

MIRROR 38
MOISTURE 60
MONAURAL AUDIO 51
MOSAIC 38

- N -

ND FILTER 50
NEG 38
NTSC 56

- O -

OPERATION MODE 13
OSD 12

Downloaded From VideoCamera-Manual.com Manuals

Index

- P -

PAL....56
PLAY....52
PLAYER....52
PORTRAIT MODE....36
POWER CONSUMPTION....61
POWER REQUIREMENT....61
POWER SWITCH....18
PROGRAM AE....36

- R -

RECHARGING....19
RECORDING....23
REC SEARCH....24
REMOTE CONTROL....15
REW (REWIND)....53

- S -

SAFETY INSTRUCTION....4
SAND/SNOW MODE....36
SELF-30S....15
SELF-END....15
SELF DIAGNOSIS....57
SELF RECORD....15
SELF TIMER....15
SEPIA....38
SHOULDER STRAP....17
SNAP SHOT....45
SPECIFICATION....61
SPORTS MODE....36
SPOTLIGHT MODE....36
START/STOP....23
STILL....53
STOP....52
STROBE....38
SYSTEM....61
S-VIDEO....52

- T -

TAPE COUNTER....13
TAPE EJECT....22
TAPE END....57
TIME....40
TITLE....42
TROUBLE CHECK....58
TV MONITOR....51

- V -

VIDEO....51
VIDEO HEAD....55

- W -

WAIT-10S....15
WEIGHT....61

- Z -

ZERO RETURN....53
ZOOM....28

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Power Sources (United Kingdom Only)

The mains lead on the power adapter is supplied with a molded plug incorporating a fuse.

The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BS1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable.

If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug.

Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug.
Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the

bared flexible cord.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE = NEUTRAL BROWN = LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.

The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING	Do not connect either wire to the earth terminal marked with the letter E or the earth symbol, ⏚, or coloured GREEN or GREEN and YELLOW.
NOTE	This page is applicable to Great Britain only.

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UNITED KINGDOM

This Samsung product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased.
However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

Samsung Electronics (U.K.) Ltd.,
Euro Service Centre, Stafford Park 12,
TELFORD, Shropshire TF3 3BJ,
Tel: 0870) 242 0303, Fax: 01952) 297617

■ WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.

REPUBLIC OF IRELAND

4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no re-imbursement will be made for such adaptation nor any damage which may result.
5. This warranty covers none of the following:
   a) Periodic check ups, maintenance and repair or replacement of parts due to normal wear and tear.
   b) Cost relating to transport, removal or installation of the product.
   c) Misuse, including the faiure to use this product for its normal purposes or incorrect installation.
   d) Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper ventilation or any other cause beyond the control of Samsung.
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. The consumers statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the rights under this warranty are the consumers sole rights and Samsung, its subsidiaries and distributors shall not be liable for indirect or consequential loss or any damage to records, compact discs, videos or audio taper or any other related equipment or material.

SAMSUNG ELECTRONICS (U.K.) LTD.

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ΕΛΛΑΣ (GREECE)

Αγαπητέ πελάτη,
Σας ευχαριστούμε για την εμπιστοσύνη που δείξατε στην SAMSUNG με την αγορά αυτής της συσκευής.
Το προϊόν αυτό της SAMSUNG είναι εγγυημένο για περίοδο δώδεκα (12) μηνών από την ημερομηνία αγοράς του για ανταλλακτικά και εργατικά. Στην περίπτωση που θα χρειαστεί επισκευή, το προϊόν αυτό της SAMSUNG θα πρέπει να σταλεί ή να μεταφερθεί στο εξουσιοδοτημένο service, με έξοδα του αγοραστή.
Εξουσιοδοτημένοι αντιπρόσωποι και εξουσιοδοτημένα κέντρα service σε άλλες Ευρωπαικές χώρες, θα αποδεχθούν τους όρους της εγγύησης.
Πληροφορίες για τα εξουσιοδοτημένα κέντρα service στην Ελλάδα, μπορείτε να πάρετε από την

FOURLIS TRADE A.E.B.E.
Λ. Κρυονερίου 112
145 68 Κρυονέρι, Απικής

Τηλ. 210.629.3100

■ Οροι της εγγύησης

1. Η εγγύηση ισχύει εάν και μόνο εάν το προϊόν χρειάζεται service και η κάρτα εγγύησης έχει πλήρως συμπληρωθεί και σφραγισθεί από το κατάστημα αγοράς. Επίσης πρέπει να προσκομισθεί και το τιμολόγιο ή η απόδειξη λιανικής πώλησης, πάνω στην οποία ο σειριακός αριθμός του προϊόντος πρέπει να είναι ευκρινής.
2. Η υποχρέωση της SAMSUNG αφορά μόνο την επισκευή του προιόντος
3. Η επισκευή του προιόντος πρέπει να ανατίθεται μόνο σε εξουσιοδοτημένα κέντρα service ή εξουσιοδοτημένους αντιπροσώπους της SAMSUNG. Καμία αποζημίωση δεν θα γίνει αποδεκτή για επισκευή που έχει γίνει από μη εξουσιοδοτημένο από την SAMSUNG συνεργείο.
4. Το προιόν αυτό δεν θα θεωρηθεί ελλατωματικό στα υλικά ή στην εργασία επισκευής εάν θα πρέπει να προσαρμοστεί, μετατραπεί ή ρυθμιστεί ώστε να συμμορφωθεί με τις τοπικές τεχνικές προδιαγραφές ή προδιαγραφές που ισχύουν σε χώρα άλλη από αυτή για την οποία προοριζόταν ή κατασκευάστηκε.
   Η εγγύηση αυτή δεν καλύπτει αποζημιώσεις για:
   * Κεφαλές βίντεο και κασετοφώνων
   * Κεφαλές βιντεοκάμερας
   * Γεννήτριες ακτινών laser στα CD, DVD
   * Τηλεχειριστήρια
   * Λυχνίες φούρνων μικροκυμάτων
   * Προσαρμογές, μετατροπές ή ρυθμίσεις, ανεξάρτητα αν είναι επιτυχής ή ανεπιτυχής, ούτε οποιαδήποτε ζημία προέρχεται εξ αυτού...

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5. Η εγγύηση αυτή δεν καλύπτει καμία από τις παρακάτω περιπτώσεις:
   * Περιοδικούς ελέγχους, συντήρηση και επισκευή ή αντικατάσταση μερών που οφείλονται σε φυσιολογική φθορά
   * Τα έξοδα και τους κινδύνους μεταφοράς που σχετίζονται με την εγγύηση αυτού του προιόντος
   * Ζημία σε αυτό το προιόν που προέρχεται από:
     Α. Κατάχρηση ή και κακή χρήση, συμπεριλαμβανομένης αλλά και μη περιορισμένης σε:
     Μη χρήση αυτού του προιόντος για τους σκοπούς που φυσιολογικά προορίζεται ή σύμφωνα με τις οδηγίες χρήσεως για την σωστή χρήση και συντήρηση αυτού του προιόντος
     Την εγκατάσταση και χρήση του προιόντος με τρόπους που αντίκεινται στις τεχνικές προδιαγραφές ασφαλείας που ισχύουν κατά την χρήση του προιόντος
     Β. Επισκευή που έγινε από μη εξουσιοδοτημένα συνεργεία service
     Γ. Ατυχήματα, θεομηνίες ή οποιαδήποτε αιτία πέρα του ελέγχου της SAMSUNG, συμπεριλαμβανομένων αλλά μη περιορισμένων των κεραυνών, του νερού, της φωτιάς, των δημοσίων αναταραχών, του κακού αερισμού κλπ.
     Δ. Η εγγύηση αυτή δεν επηρεάζει τα δικαιώματα του καταναλωτή που προβλέπονται από την εφαρμοστέα εθνική νομοθεσία που ισχύει, ούτε τα δικαιώματα των καταναλωτών εναντίον των λιανοπωλητών που απορρέουν από την σύμβαση πώλησης.
   Ε. Σε περίπτωση που δεν υπάρχει εθνική νομοθεσία αυτή η εγγύηση θα είναι η μοναδική και αποκλειστική κάλυψη του καταναλωτή για κάθε ζημιά.

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